1. Given two numbers, Swap those two numbers without using temporary variable

**Program:**

#include <stdio.h>

int main() {

int num1, num2;

printf("Enter num1: ");

scanf("%d", &num1);

printf("Enter num2: ");

scanf("%d", &num2);

num1 = num1 + num2;

num2 = num1 - num2;

num1 = num1 - num2;

printf("After swapping:\n");

printf("num1 = %d\n", num1);

printf("num2 = %d\n", num2);

return 0;

}

1. Calculate the number of years,weeks and the remaining days for the given total day

**Program:**

#include <stdio.h>

int main() {

int totalDays;

// Input: Any Integer (total days)

printf("Enter the total number of days: ");

scanf("%d", &totalDays);

// Calculation

int years = totalDays / 365;

int weeks = (totalDays % 365) / 7;

int daysLeft = (totalDays % 365) % 7;

// Output: Number of Years, Weeks, and Remaining Days

printf("Number of Years: %d\n", years);

printf("Number of Weeks: %d\n", weeks);

printf("Number of Days: %d\n", daysLeft);

return 0;

1. Evaluate a polynomial of degree n.

**Program:**

#include <stdio.h>

int main() {

int degree, x;

// Input: Degree of the polynomial

printf("Enter the degree of the polynomial: ");

scanf("%d", &degree);

// Input: Coefficients of the polynomial

int coefficients[degree + 1];

printf("Enter the coefficients (from a%d to a0): ", degree);

for (int i = degree; i >= 0; i--) {

scanf("%d", &coefficients[i]);

}

// Input: Value of x

printf("Enter the value of x: ");

scanf("%d", &x);

// Evaluate the polynomial

int result = 0;

for (int i = degree; i >= 0; i--) {

result = result \* x + coefficients[i];

}

// Output: Result of P(x)

printf("P(%d) = %d\n", x, result);

return 0;

}